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REPORT

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL

No. 11-91 January 30, 1991

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – NOVEMBER 1990

(Values in Millions of U.S. Dollars)

	Nov. 1990	Oct. 1990	Average Aug-Oct	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 44.9	$ 52.0	$ 49.9	$ 550.7	$ 435.7	26.4%
Imports	$107.6	$162.3	$164.1	$1,634.2	$1,704.0	(4.1%)
Balance	($ 62.7)	($110.3)	($114.2)	($1,083.5)	($1,268.3)	(14.6%)
METAL FORMING MACHINE TOOLS						
Exports	$ 42.3	$ 33.0	$ 34.2	$ 419.5	$ 419.6	0.0%
Imports	$ 57.9	$ 47.2	$ 50.5	$ 482.8	$ 503.6	(4.1%)
Balance	($ 15.6)	($ 14.2)	($ 16.3)	($ 63.3)	($ 84.0)	(24.6%)
MACHINE TOOL TOTAL						
Exports	$ 87.2	$ 84.9	$ 84.1	$ 970.2	$ 855.3	13.4%
Imports	$165.5	$209.5	$214.6	$2,117.0	$2,207.6	(4.1%)
Balance	($ 78.3)	($124.6)	($130.5)	($1,146.8)	($1,352.3)	(15.2%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 28.4	$ 27.3	$ 27.8	$ 304.4	$ 225.5	35.0%
Imports	$ 73.6	$110.3	$116.9	$1,115.2	$1,189.6	(6.3%)
Balance	($ 45.2)	($ 83.0)	($ 89.1)	($ 810.8)	($ 964.1)	(15.9%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$153.2	$160.4	$153.8	$1,510.5	NA	NA
Imports	$153.8	$165.2	$159.7	$1,619.3	NA	NA
Balance	($ 0.6)	($ 4.8)	($ 5.9)	($ 108.8)	NA	NA

Note: Numerically controlled machine tools is a subgroup of the machine tool total. NA = not available; ( ) denotes negative. Individual items may not add up to totals due to rounding.

- U.S. machine tool exports in November rose 3% from October to $87.2 million, the highest monthly total since March 1990.

- Year-to-date exports in 1990 through November were $970.2 million, up 13% over 1989 at this time.

- Machine tool imports fell 21% in November to $165.5 million, down from $209.5 million in October.

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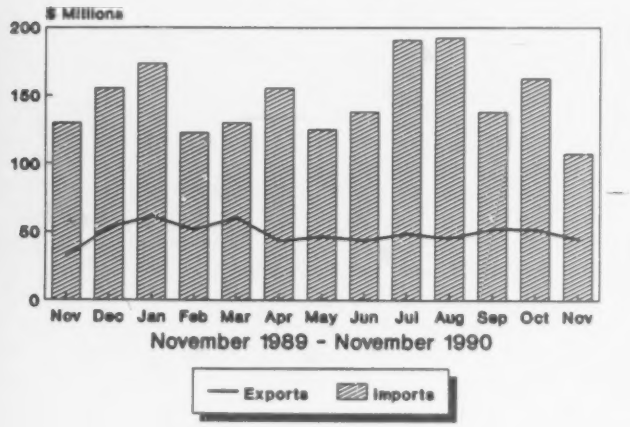
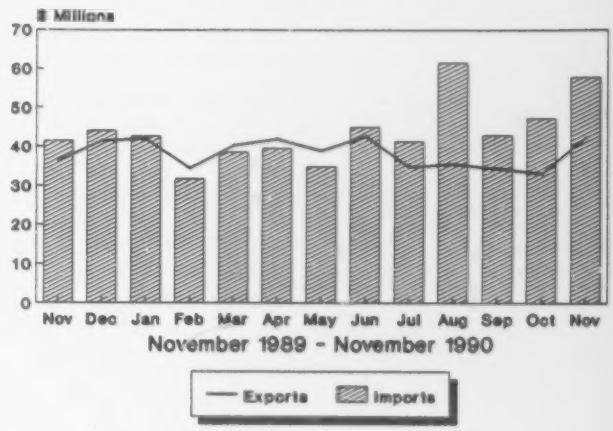
U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

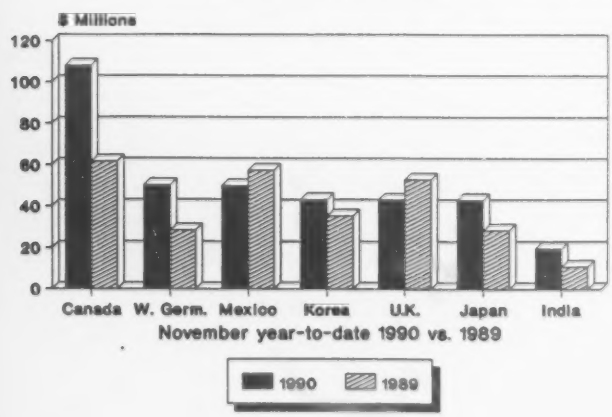
Exports

- Year-to-date exports of metal cutting machines were $550.7 million, up 26% over 1989. Exports in November of $44.9 million were down 14% from October.

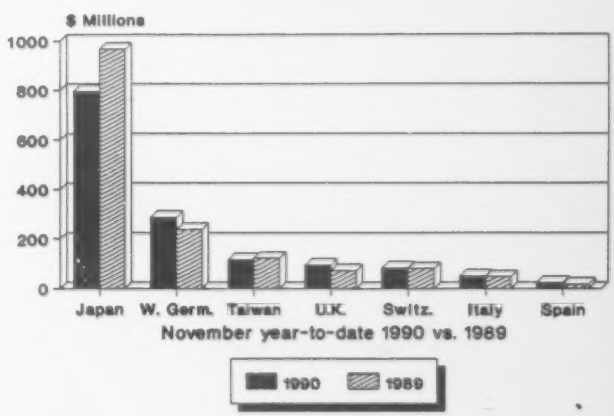
- Year-to-date exports of gear cutting machines totalled $52.4 million in 1990 through November, up from $38.3 million in 1989 at this time. Year-to-date exports of grinding machines were up 3% over 1989 to $119.5 million.

- Exports to Canada in 1990 through November ($107.9 million) accounted for 20% of total metal cutting exports; the top five export markets (Canada, Germany, Mexico, South Korea, and the United Kingdom) account for 53% of total metal cutting exports.

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

• Metal cutting machine tool imports in November were $107.6 million, the lowest monthly total since September 1988. The monthly average in 1990 through November: $148.6 million.

• The top five year-to-date import sources for metal cutting machines (Japan, Germany, Taiwan, the United Kingdom and Switzerland) account for 84% of total metal cutting imports.

• Imports of NC horizontal lathes in November were 126 units valued at $12.9 million. Both figures were by far the lowest monthly totals so far in 1990.

METAL FORMING MACHINE TOOLS

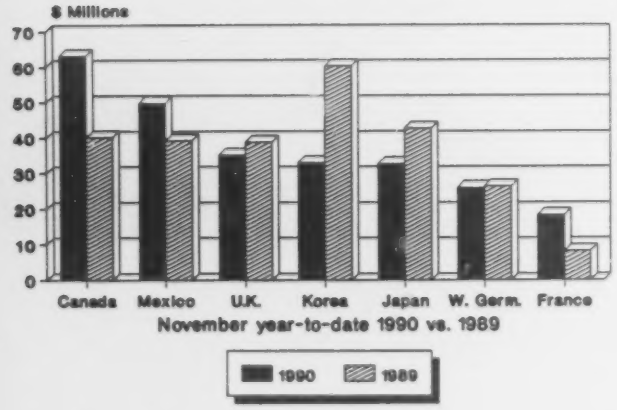
Exports

• Year-to-date exports of metal forming machines were $419.5 million, almost exactly equal to the total last year at this time. Exports in November of $42.3 million were up 28% over October.

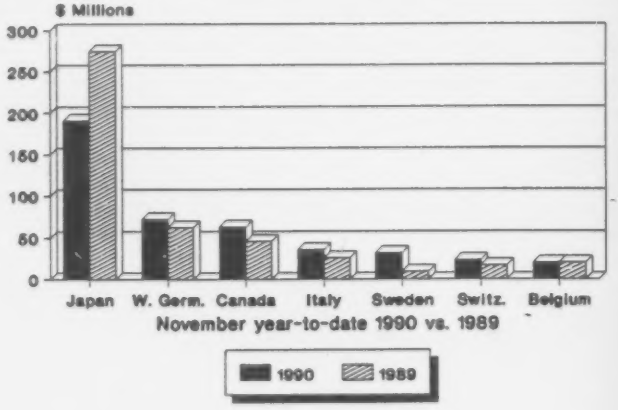
• Canada remains the largest year-to-date export market at $63.1 million, up 57% over 1989. Other big gainers include Mexico (up 27% to $49.8 million) and France (up 122% to $18.3 million).

• Exports of presses in November were $11.3 million for a year-to-date total of $90.0 million, 19% higher than 1989. In unit terms, exports of presses are up 32% to 1,900.

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

• Year-to-date imports of metal forming machines were $482.8 million in 1990 through November, down 4% from 1989. The top five import sources accounted for 81% of total imports in 1990 through November.

• Year-to-date imports from Japan were down 30% from 1989 to $190.9 million; imports from Germany were up 16% and imports from Canada were up 37%.

• Year-to-date imports of presses were up 95% in unit terms but down 23% in value terms compared with 1989.

OTHER MANUFACTURING TECHNOLOGY

Exports

• U.S. exports of other manufacturing technology in November were $153.2 million, down slightly from October. Exports of machine tool parts and accessories were $67.5 million, up from the 1990 average of $60.3 million.

• Exports of numerical controls for controlling machine tools were $27.2 million in November, down from $37.7 million in 1989 through November. The largest markets in 1990 so far: the United Kingdom ($9.9 million, 665 units); France ($3.3 million, 227 units); Germany ($3.1 million, 199 units) and Canada ($1.2 million, 100 units).

Imports

• Imports of machine tool parts and accessories were $45.6 million in November. The monthly average so far in 1990: $46.7 million.

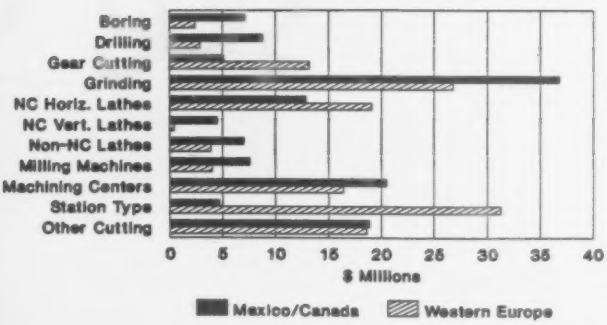
• Imports of numerical controls for controlling machine tools totalled $3.0 million in November. The monthly average for 1990 through November: $3.9 million.

• Year-to-date imports of machines using laser, light or photon beams were $42.1 million. The comparable figure for 1989: $24.5 million.

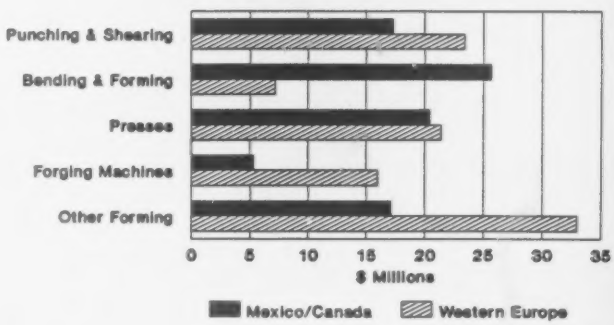
MONTHLY FOCUS

Total U.S. machine tool exports to Canada and Mexico totalled $270.6 million in 1990 through November, up 28% over the comparable 1989 figure. Also booming are exports to Western Europe, which were $269.5 million so far in 1990. Exports to every major Western European country except the United Kingdom were up at least 20% over 1989 levels. The charts below detail U.S. machine tool exports to Canada/Mexico and Western Europe by type of machine. Some of the biggest differences are in station type machines ($4.7 million to Canada/Mexico, $31.3 million to Western Europe) and bending & forming machines ($25.7 million to Canada/Mexico, $7.2 million to Western Europe).

U.S. Metal Cutting Machine Tool Exports
to Mexico/Canada and Western Europe
January-November 1990



U.S. Metal Forming Machine Tool Exports
to Mexico/Canada and Western Europe
January-November 1990



Note: data do not include used & rebuilt machines or machines valued under $2,500.

1990 EXPORTS

METAL CUTTING

COUNTRY	NOVEMBER	OCTOBER	%CHANGE	NOV YTD'90	NOV YTD'89	%CHANGE
Canada	$ 6,824,218	$ 8,009,551	-14.80%	$107,913,036	$61,442,158	75.63%
West Germany	6,674,612	9,360,107	-28.69	50,247,307	28,410,316	76.86
Mexico	3,150,475	4,774,615	-34.02	49,776,840	57,300,616	-13.13
Korea	1,809,963	2,470,923	-26.75	43,225,546	35,176,449	22.88
U.K.	3,851,180	1,636,685	135.30	43,109,718	52,735,641	-18.25
Japan	6,389,031	3,409,493	87.39	43,056,736	28,328,184	51.99
India	388,804	2,621,956	-85.17	19,607,316	10,929,135	79.40
China	1,531,017	2,107,884	-27.37	19,191,698	25,031,676	-23.33
Belgium	739,907	672,276	10.06	18,599,198	6,848,453	171.58
Italy	1,727,507	2,159,265	-20.00	17,089,561	13,357,860	27.94
Brazil	1,719,549	2,432,266	-29.30	15,600,115	10,294,457	51.54
Australia	927,950	208,074	345.97	15,126,996	9,600,317	57.57
Taiwan	785,165	638,581	22.95	10,914,524	8,836,107	23.52
France	367,338	982,580	-62.61	8,467,086	11,047,818	-23.36
Singapore	475,378	203,753	133.31	8,139,013	7,619,910	6.81
USSR	0	1,456,509	-100.00	7,861,503	11,927,906	-34.09
Venezuela	387,275	763,086	-49.25	6,849,596	5,487,127	24.83
Netherlands	278,855	1,460,486	-80.91	5,979,357	3,869,426	54.53
Spain	151,654	357,536	-57.58	5,712,682	3,107,307	83.85
Switzerland	488,318	189,334	157.91	5,254,743	3,513,792	49.55
Malaysia	55,880	3,974	1,306.14	2,333,194	990,120	135.65
Thailand	125,312	390,111	-67.88	2,173,070	2,196,227	-1.05
Indonesia	39,890	132,432	-69.88	345,299	4,154,910	-91.69
Austria	18,204	17,856	1.95	262,817	1,253,499	-79.03

METAL FORMING

COUNTRY	NOVEMBER	OCTOBER	%CHANGE	NOV YTD'90	NOV YTD'89	%CHANGE
Canada	$ 4,684,944	$ 5,993,872	-21.84%	$63,117,830	$40,131,200	57.28%
Mexico	3,698,221	4,674,003	-20.88	49,773,267	39,191,982	27.00
U.K.	3,753,115	1,712,686	119.14	35,159,161	38,701,229	-9.15
Korea	4,017,788	1,248,488	221.81	33,025,124	60,163,045	-45.11
Japan	2,385,961	1,823,012	30.88	32,612,630	42,568,303	-23.39
West Germany	3,021,986	2,901,401	4.16	25,907,698	26,327,135	-1.59
France	1,860,493	3,898,667	-52.28	18,293,258	8,243,558	121.91
Taiwan	3,187,665	2,170,263	46.88	16,851,701	18,742,213	-10.09
China	4,240,624	118,924	3,465.83	16,674,090	10,963,089	52.09
Brazil	3,262,226	475,104	586.63	9,233,701	7,802,953	18.34
Netherlands	1,393,026	651,242	113.90	8,815,926	6,381,224	38.15
Italy	374,021	583,583	-35.91	8,233,689	7,624,199	7.99
Indonesia	168,030	936,240	-82.05	6,740,737	234,046	2,780.09
India	510,118	164,688	209.75	6,567,583	8,834,119	-25.66
Australia	146,570	1,318,002	-88.88	6,178,188	6,820,770	-9.42
Spain	65,450	332,733	-80.33	5,561,011	4,051,797	37.25
Singapore	232,197	485,028	-52.13	5,555,218	7,114,233	-21.91
Malaysia	117,205	36,499	221.12	4,497,737	1,540,478	191.97
Thailand	164,449	432,521	-61.98	4,286,902	3,682,417	16.42
Belgium	22,465	37,930	-40.77	2,599,393	2,787,620	-6.75
Austria	118,758	145,196	-18.21	2,427,976	815,189	197.84
Switzerland	62,522	160,001	-60.92	2,111,059	1,398,676	50.93
Venezuela	459,249	133,293	244.54	2,010,906	8,413,479	-76.10
USSR	0	37,846	-100.00	732,665	976,510	-24.97

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	NOVEMBER	OCTOBER	%CHANGE	NOV YTD'90	NOV YTD'89	%CHANGE
Canada	$11,509,162	$14,003,423	-17.81%	$171,030,866	$101,573,358	68.38%
Mexico	6,848,696	9,448,618	-27.52	99,550,107	96,492,598	3.17
U.K.	7,604,295	3,349,371	127.04	78,268,879	91,436,870	-14.40
Korea	5,827,751	3,719,411	56.68	76,250,670	95,339,494	-20.02
West Germany	9,696,598	12,261,508	-20.92	76,155,005	54,737,451	39.13
Japan	8,774,992	5,232,505	67.70	75,669,366	70,896,487	6.73
China	5,771,641	2,226,808	159.19	35,865,788	35,994,765	-0.36
Taiwan	3,972,830	2,808,844	41.44	27,766,225	27,578,320	0.68
France	2,227,831	4,881,247	-54.36	26,760,344	19,291,376	38.72
India	898,922	2,786,644	-67.74	26,174,899	19,763,254	32.44
Italy	2,101,528	2,742,848	-23.38	25,323,250	20,982,059	20.69
Brazil	4,981,775	2,907,370	71.35	24,833,816	18,097,410	37.22
Australia	1,074,520	1,526,076	-29.59	21,305,184	16,421,087	29.74
Belgium	762,372	710,206	7.35	21,198,591	9,636,073	119.99
Netherlands	1,671,881	2,111,728	-20.83	14,795,283	10,250,550	44.34
Singapore	707,575	688,781	2.73	13,694,231	14,734,143	-7.06
Spain	217,104	690,269	-68.55	11,273,693	7,159,104	57.47
Venezuela	846,524	896,379	-5.56	8,860,502	13,900,606	-36.26
USSR	0	1,494,355	-100.00	8,594,168	12,904,416	-33.40
Switzerland	550,840	349,335	57.68	7,365,802	4,912,468	49.94
Indonesia	207,920	1,068,672	-80.54	7,086,036	4,388,956	61.45
Malaysia	173,085	40,473	327.66	6,830,931	2,530,598	169.93
Thailand	289,761	822,632	-64.78	6,459,972	5,878,644	9.89
Austria	136,962	163,052	-16.00	2,690,793	2,068,688	30.07

1990 IMPORTS

METAL CUTTING

COUNTRY	NOVEMBER	OCTOBER	%CHANGE	NOV YTD'90	NOV YTD'89	%CHANGE
Japan	$54,217,386	$78,925,103	-31.31%	$795,365,671	$966,401,466	-17.70%
West Germany	11,750,266	26,485,175	-55.63	287,127,630	239,362,664	19.96
Taiwan	7,982,282	13,455,165	-40.67	116,925,197	122,616,516	-4.64
U.K.	7,550,073	13,247,088	-43.01	95,747,411	72,339,132	32.36
Switzerland	8,874,600	6,689,540	32.66	84,203,115	80,381,927	4.75
Italy	1,207,665	5,472,770	-77.93	50,803,994	47,518,801	6.91
Spain	2,155,630	1,448,355	48.83	24,298,495	18,077,454	34.41
France	1,052,004	1,117,947	-5.90	22,586,057	19,941,339	13.26
Canada	1,208,212	2,209,783	-45.32	19,946,034	18,464,430	8.02
Singapore	1,416,334	1,465,875	-3.38	17,719,830	16,188,080	9.46
Korea	1,056,728	1,214,833	-13.01	17,072,503	25,513,286	-33.08
Sweden	1,688,656	2,066,473	-18.28	15,919,591	12,098,957	31.58
Brazil	[illegible] 618	1,854,603	-81.69	12,276,555	6,936,647	76.98
Belgium	[illegible] 594	32,761	-64.61	1,670,269	4,862,969	-65.65

METAL FORMING

COUNTRY	NOVEMBER	OCTOBER	%CHANGE	NOV YTD'90	NOV YTD'89	%CHANGE
Japan	$27,258,114	$18,328,796	48.72%	$190,906,550	$274,603,071	-30.48%
West Germany	10,000,155	7,744,878	29.12	72,031,864	62,050,500	16.09
Canada	8,181,981	6,467,509	26.51	62,684,233	45,878,231	36.63
Italy	3,035,179	663,747	357.28	35,639,709	25,849,023	37.88
Sweden	1,928,016	6,171,465	-68.76	31,490,816	9,497,871	231.56
Switzerland	2,362,402	2,608,965	-9.45	23,123,377	16,273,581	42.09
Belgium	499,046	1,643,832	-69.64	20,015,013	20,057,143	-0.21
U.K.	1,721,034	1,546,029	11.32	14,432,693	14,044,792	2.76
Taiwan	237,720	332,877	-28.59	8,406,192	8,223,680	2.22
Spain	452,025	258,240	75.04	3,981,175	2,768,905	43.78
France	144,674	131,974	9.62	3,383,738	1,550,787	118.19
Korea	122,809	0	NA	638,547	393,988	62.07
Brazil	0	0	NA	202,406	4,520,020	-95.52
Singapore	42,065	0	NA	174,645	862,449	-79.75

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	NOVEMBER	OCTOBER	%CHANGE	NOV YTD'90	NOV YTD'89	%CHANGE
Japan	$81,475,500	$97,253,899	-16.22%	$986,272,221	$1,241,004,537	-20.53%
West Germany	21,750,421	34,230,053	-36.46	359,159,494	301,413,164	19.16
Taiwan	8,220,002	13,788,042	-40.38	125,331,389	130,840,196	-4.21
U.K.	9,271,107	14,793,117	-37.33	110,180,104	86,383,924	27.55
Switzerland	11,237,002	9,298,505	20.85	107,326,492	96,655,508	11.04
Italy	4,242,844	6,136,517	-30.86	86,443,703	73,367,824	17.82
Canada	9,390,193	8,677,292	8.22	82,630,267	64,342,661	28.42
Sweden	3,616,672	8,237,938	-56.10	47,410,407	21,596,828	119.52
Spain	2,607,655	1,706,595	52.80	28,279,670	20,846,359	35.66
France	1,196,678	1,249,921	-4.26	25,969,795	21,492,126	20.83
Belgium	510,640	1,676,593	-69.54	21,685,282	24,920,112	-12.98
Singapore	1,458,399	1,465,875	-0.51	17,894,475	17,050,529	4.95
Korea	1,179,537	1,214,833	-2.91	17,711,050	25,907,274	-31.64
Brazil	339,618	1,854,603	-81.69	12,478,961	11,456,667	8.92

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	2,899	12,224,015	4,543	10,935,156	5,847	11,979,000	4,803	14,929,198
Boring Machines	13	958,297	8	1,407,307	13	1,519,123	8	1,954,122
Drilling Machines	110	2,255,419	53	920,425	94	2,533,602	62	1,031,525
Gear Cutting Machines	41	5,554,867	19	3,700,605	17	3,507,653	4	342,956
Grinding Machines	271	15,211,730	228	10,470,138	459	12,592,065	306	10,686,858
Horizontal Lathes NC	43	4,863,833	35	5,062,164	35	2,648,406	39	5,237,685
Vertical Lathes NC	5	1,223,137	0	0	16	892,377	5	262,000
Lathes Non-NC	58	1,113,041	48	1,473,294	76	1,855,222	65	2,364,278
Milling Machines	48	3,596,641	29	3,228,995	75	5,272,375	32	3,018,604
Machining Centers	65	7,526,957	34	6,062,752	50	8,542,651	26	4,477,012
Station Type Machines	10	5,374,341	28	7,752,282	8	4,611,947	2	596,029
Other Metal Cutting	314	7,165,369	312	7,438,893	364	9,303,138	269	6,223,447
Punching & Shearing Machines	107	4,427,453	121	9,826,370	155	5,546,446	111	3,759,666
Bending & Forming Machines	137	5,902,352	125	3,466,071	128	5,372,091	177	6,400,347
Presses	259	11,682,624	130	6,795,010	273	10,390,057	191	11,017,558
Forging Machines	26	5,015,295	16	2,278,536	31	3,378,097	26	3,198,154
Other Metal Forming	265	8,974,698	264	5,154,346	312	10,516,058	203	9,968,707
TOTAL	4,671	103,070,069	5,993	85,972,344	7,953	100,460,308	6,329	85,468,146

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,514	13,323,757	6,556	17,922,902	5,058	13,126,467	4,863	14,611,340
Boring Machines	23	2,694,052	28	725,470	16	3,194,775	8	1,024,328
Drilling Machines	141	1,391,074	120	1,137,000	61	1,735,259	98	1,658,877
Gear Cutting Machines	16	3,920,375	23	7,676,020	35	8,746,125	4	2,246,285
Grinding Machines	234	9,407,118	266	5,746,890	390	11,166,259	324	14,070,348
Horizontal Lathes NC	43	4,213,770	45	4,033,357	30	3,555,437	30	2,587,966
Vertical Lathes NC	4	245,844	1	63,000	5	276,808	12	4,857,652
Lathes Non-NC	60	1,105,382	85	1,435,017	65	899,416	62	1,664,183
Milling Machines	38	1,738,745	13	603,525	33	5,244,894	28	1,875,948
Machining Centers	23	4,666,577	39	6,176,997	24	2,387,041	16	2,320,834
Station Type Machines	2	2,487,300	0	0	1	245,000	0	0
Other Metal Cutting	484	5,316,601	378	6,376,676	267	4,712,434	232	5,861,015
Punching & Shearing Machines	162	6,578,641	178	7,923,077	143	5,170,365	79	2,249,460
Bending & Forming Machines	142	4,048,283	125	4,440,766	136	5,191,915	269	9,426,251
Presses	287	8,435,990	154	10,425,441	145	5,027,176	133	4,874,468
Forging Machines	67	6,501,594	40	3,738,610	42	5,222,953	27	5,550,253
Other Metal Forming	324	9,293,053	340	8,244,762	230	7,705,041	233	6,075,258
TOTAL	7,564	85,368,156	8,391	86,669,510	6,681	83,607,365	6,418	80,954,466

1990 U.S. EXPORTS BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER 1990 Units	SEPTEMBER 1990 Value	OCTOBER 1990 Units	OCTOBER 1990 Value	NOVEMBER 1990 Units	NOVEMBER 1990 Value	NOV'90 Y-T-D TOTALS Units	NOV'90 Y-T-D TOTALS Value
Used & Rebuilt & Under $2,500	5,218	13,541,688	6,399	11,915,072	4,220	9,811,078	55,920	144,319,673
Boring Machines	13	892,848	12	613,537	5	453,080	147	15,436,939
Drilling Machines	72	2,247,262	60	937,232	59	1,220,482	930	17,068,157
Gear Cutting Machines	16	8,205,773	33	4,217,786	24	4,326,960	232	52,445,405
Grinding Machines	412	8,753,533	346	10,933,219	399	10,473,970	3,635	119,512,128
Horizontal Lathes NC	29	3,059,742	25	2,408,221	26	2,776,395	380	40,446,976
Vertical Lathes NC	5	2,322,630	9	1,621,356	2	287,836	64	12,052,640
Lathes Non-NC	51	1,033,985	61	1,218,831	70	1,500,069	701	15,662,718
Milling Machines	38	5,262,002	51	2,190,381	21	1,976,806	406	34,008,916
Machining Centers	13	2,443,148	52	4,679,669	25	3,961,612	367	53,245,250
Station Type Machines	5	5,650,047	8	8,910,384	7	5,952,523	71	41,579,853
Other Metal Cutting	288	5,325,005	490	7,249,997	395	6,820,575	3,793	71,793,150
Punching & Shearing Machines	56	3,258,296	111	4,695,896	167	6,683,192	1,390	60,118,862
Bending & Forming Machines	165	8,316,381	139	6,554,180	139	6,281,392	1,682	65,400,029
Presses	126	5,543,751	89	4,543,803	113	11,284,355	1,900	90,020,233
Forging Machines	12	2,088,733	30	3,804,635	18	3,400,845	335	44,177,705
Other Metal Forming	168	8,580,087	241	8,430,558	232	9,985,194	2,812	92,927,762
TOTAL	6,687	86,524,911	8,156	84,924,757	5,922	87,196,364	74,765	970,216,396

PRODUCT TYPES	NOVEMBER 1989 Units	NOVEMBER 1989 Value	NOV'89 Y-T-D TOTALS Units	NOV'89 Y-T-D TOTALS Value
Used & Rebuilt & Under $2,500	3,643	9,099,729	52,744	128,256,326
Boring Machines	28	1,311,525	243	14,326,773
Drilling Machines	64	608,955	691	16,198,469
Gear Cutting Machines	48	4,982,715	256	38,341,843
Grinding Machines	242	5,773,319	3,575	116,190,311
Horizontal Lathes NC	20	2,041,092	232	25,422,222
Vertical Lathes NC	1	155,000	18	2,549,324
Lathes Non-NC	45	648,656	471	12,027,587
Milling Machines	11	334,380	499	26,407,563
Machining Centers	36	5,134,324	343	41,994,963
Station Type Machines	3	2,739,207	53	26,695,618
Other Metal Cutting	178	3,016,142	2,218	52,807,531
Punching & Shearing Machines	141	3,752,463	1,139	52,276,413
Bending & Forming Machines	80	2,322,597	953	44,371,130
Presses	158	7,063,268	1,438	75,565,698
Forging Machines	110	6,521,456	765	37,681,631
Other Metal Forming	238	12,843,187	3,593	144,206,351
TOTAL	5,046	68,348,015	69,231	855,319,753

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE OCT 90' - NOV 90'		% CHANGE NOV 89' - NOV 90'		% CHANGE YTD 89' - YTD 90'	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	-34.05	-17.66	15.84	7.82	6.02	12.52
Boring Machines	-58.33	-26.15	-82.14	-65.45	-39.51	7.75
Drilling Machines	-1.67	30.22	-7.81	100.42	34.59	5.37
Gear Cutting Machines	-27.27	2.59	-50.00	-13.16	-9.38	36.78
Grinding Machines	15.32	-4.20	64.88	81.42	1.68	2.86
Horizontal Lathes NC	4.00	15.29	30.00	36.02	63.79	59.10
Vertical Lathes NC	-77.78	-82.25	100.00	85.70	255.56	372.78
Lathes Non-NC	14.75	23.07	55.56	131.26	48.83	30.22
Milling Machines	-58.82	-9.75	90.91	491.19	-18.64	28.78
Machining Centers	-51.92	-15.34	-30.56	-22.84	7.00	26.79
Station Type Machines	-12.50	-33.20	133.33	117.31	33.96	55.76
Other Metal Cutting	-19.39	-5.92	121.91	126.14	71.01	35.95
Punching & Shearing Machines	50.45	42.32	18.44	78.10	22.04	15.00
Bending & Forming Machines	0.00	-4.16	73.75	170.45	76.50	47.39
Presses	26.97	148.35	-28.48	59.76	32.13	19.13
Forging Machines	-40.00	-10.61	-83.64	-47.85	-56.21	17.24
Other Metal Forming	-3.73	18.44	-2.52	-22.25	-21.74	-35.56
TOTAL	-27.39	2.67	17.36	27.58	7.99	13.43

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	80,165	15,101,348	66,011	10,754,274	64,814	11,170,439	83,714	12,296,755
Boring Machines	40	2,511,474	57	2,665,242	41	2,141,056	47	1,821,173
Drilling Machines	187	5,976,518	66	1,331,591	131	4,767,643	113	3,595,961
Gear Cutting Machines	37	5,386,214	39	3,472,430	74	3,683,095	34	4,189,126
Grinding Machines	722	28,410,149	631	18,196,164	723	19,376,535	737	21,052,417
Horizontal Lathes NC	342	34,310,797	275	24,455,772	290	24,294,192	281	25,715,875
Vertical Lathes NC	23	2,826,480	9	1,890,507	10	1,702,771	6	1,455,000
Lathes Non-NC	609	9,691,329	474	8,086,596	812	10,071,175	976	10,109,253
Milling Machines	450	9,477,437	369	5,328,255	490	4,451,840	598	7,693,031
Machining Centers	368	44,495,101	262	28,896,262	270	30,976,925	344	48,979,703
Station Type Machines	16	4,428,004	9	2,400,678	15	3,697,896	41	8,192,567
Other Metal Cutting	543	14,026,009	390	15,984,088	381	15,326,449	425	12,556,824
Punching & Shearing Machines	110	5,701,791	122	5,391,216	203	8,518,187	146	3,941,347
Bending & Forming Machines	206	7,285,979	152	5,080,016	191	7,366,810	213	6,322,513
Presses	339	7,092,434	368	3,381,548	100	4,367,203	138	9,524,816
Forging Machines	82	8,532,715	121	5,829,041	104	5,559,426	69	3,905,455
Other Metal Forming	289	10,864,319	259	10,882,669	205	10,852,813	196	13,040,125
TOTAL	84,528	216,118,098	69,614	154,026,349	68,854	168,324,455	88,078	194,391,971

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	81,467	13,702,955	85,374	12,270,934	76,189	13,858,003	69,939	13,198,803
Boring Machines	63	2,378,706	33	4,123,015	88	7,667,947	40	4,597,123
Drilling Machines	105	1,412,575	110	2,955,449	220	7,524,179	130	4,735,213
Gear Cutting Machines	60	1,682,253	14	2,742,090	28	3,959,955	54	7,485,351
Grinding Machines	761	22,855,644	751	21,054,909	780	38,441,928	821	31,632,312
Horizontal Lathes NC	246	26,717,053	257	26,221,605	306	27,483,344	274	30,277,624
Vertical Lathes NC	12	2,697,583	10	1,453,386	28	3,717,107	39	3,149,926
Lathes Non-NC	684	8,838,746	758	16,925,801	799	9,013,925	498	8,340,641
Milling Machines	498	6,400,652	481	7,074,128	558	9,880,698	348	7,789,763
Machining Centers	212	21,375,164	269	26,963,021	272	46,323,978	239	40,781,551
Station Type Machines	9	5,207,130	4	4,151,942	13	9,081,198	17	14,951,123
Other Metal Cutting	477	14,389,120	302	13,417,230	431	15,980,415	542	27,220,071
Punching & Shearing Machines	168	5,567,876	165	6,624,692	138	8,166,921	163	6,554,127
Bending & Forming Machines	245	7,810,331	181	8,443,572	162	6,083,506	216	15,096,724
Presses	410	4,231,697	74	14,834,727	281	6,834,799	902	21,031,332
Forging Machines	46	3,389,713	85	3,437,927	90	6,719,333	42	3,824,899
Other Metal Forming	198	11,187,287	186	10,134,241	297	11,238,578	227	13,026,763
TOTAL	85,661	159,844,485	89,054	182,828,669	80,680	231,975,814	74,491	253,893,346

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER 1990 Units	SEPTEMBER 1990 Value	OCTOBER 1990 Units	OCTOBER 1990 Value	NOVEMBER 1990 Units	NOVEMBER 1990 Value	NOV'90 Y-T-D TOTALS Units	NOV'90 Y-T-D TOTALS Value
Used & Rebuilt & Under $2,500	78,484	11,149,478	123,375	18,144,453	81,074	10,309,845	890,606	141,957,287
Boring Machines	52	3,494,230	67	6,367,793	80	2,589,433	608	40,357,192
Drilling Machines	49	2,266,373	133	5,115,447	83	2,416,938	1,327	42,097,887
Gear Cutting Machines	69	4,625,890	24	9,163,879	40	3,791,633	473	50,181,916
Grinding Machines	616	25,521,740	728	22,115,629	553	16,903,675	7,823	265,761,102
Horizontal Lathes NC	194	20,111,149	236	24,077,544	126	12,878,638	2,827	276,543,593
Vertical Lathes NC	4	689,943	10	3,183,656	20	4,701,725	171	27,468,084
Lathes Non-NC	500	7,286,875	883	10,701,325	671	7,463,658	7,664	106,529,324
Milling Machines	363	7,383,527	368	6,724,436	432	6,210,377	4,955	78,414,144
Machining Centers	147	27,592,987	256	30,295,646	168	23,710,026	2,807	370,390,364
Station Type Machines	14	14,932,439	13	10,334,968	10	3,075,052	161	8[illegible],452,997
Other Metal Cutting	233	14,697,321	301	20,848,312	418	15,404,784	4,443	179,850,623
Punching & Shearing Machines	103	4,806,367	96	7,464,655	148	10,520,914	1,562	73,258,093
Bending & Forming Machines	161	5,831,579	140	9,706,668	167	8,328,936	2,034	87,356,634
Presses	416	10,399,978	225	5,254,258	103	18,034,029	3,356	104,986,851
Forging Machines	144	8,927,234	57	3,756,734	68	3,402,818	908	57,285,295
Other Metal Forming	204	10,822,213	259	16,246,525	214	15,792,641	2,534	134,088,174
TOTAL	81,753	180,539,323	127,171	209,501,928	84,375	165,535,122	934,259	2,116,979,560

PRODUCT TYPES	NOVEMBER 1989 Units	NOVEMBER 1989 Value	NOV'89 Y-T-D TOTALS Units	NOV'89 Y-T-D TOTALS Value
Used & Rebuilt & Under $2,500	67,828	11,942,281	690,541	148,780,593
Boring Machines	101	4,368,275	794	54,719,165
Drilling Machines	93	1,089,244	1,680	67,439,253
Gear Cutting Machines	54	4,985,161	659	39,547,032
Grinding Machines	638	14,980,807	7,391	252,930,857
Horizontal Lathes NC	294	26,258,734	3,854	350,547,258
Vertical Lathes NC	9	1,373,663	136	21,547,107
Lathes Non-NC	525	9,281,310	5,072	82,731,918
Milling Machines	615	7,793,252	5,704	106,645,387
Machining Centers	320	32,523,653	3,485	377,469,584
Station Type Machines	10	897,140	182	52,711,682
Other Metal Cutting	419	15,050,241	4,558	170,716,184
Punching & Shearing Machines	113	6,516,958	1,636	70,494,882
Bending & Forming Machines	183	8,839,591	2,366	86,095,854
Presses	118	6,992,355	1,718	136,036,679
Forging Machines	52	8,160,742	1,461	81,281,676
Other Metal Forming	354	9,939,309	5,594	107,911,018
TOTAL	71,726	170,992,716	736,831	2,207,606,129

1990 U.S. IMPORTS BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE OCT'90 - NOV'90		% CHANGE NOV'89 - NOV'90		% CHANGE YTD'89 - YTD'90	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	-34.29	-43.18	19.53	-13.67	28.97	-4.59
Boring Machines	19.40	-59.34	-20.79	-40.72	-23.43	-26.25
Drilling Machines	-37.59	-52.75	-10.75	121.89	-21.01	-37.58
Gear Cutting Machines	66.67	-58.62	-25.93	-23.94	-28.22	26.89
Grinding Machines	-24.04	-23.57	-13.32	12.84	5.84	5.07
Horizontal Lathes NC	-46.61	-46.51	-57.14	-50.95	-26.65	-21.11
Vertical Lathes NC	100.00	47.68	122.22	242.28	25.74	27.48
Lathes Non-NC	-24.01	-30.25	27.81	-19.58	51.10	28.76
Milling Machines	17.39	-7.64	-29.76	-20.31	-13.13	-26.47
Machining Centers	-34.38	-21.74	-47.50	-27.10	-19.45	-1.88
Station Type Machines	-23.08	-70.25	0.00	242.76	-11.54	52.63
Other Metal Cutting	38.87	-26.11	-0.24	2.36	-2.52	5.35
Punching & Shearing Machines	54.17	40.94	30.97	61.44	-4.52	3.92
Bending & Forming Machines	19.29	-14.19	-8.74	-5.78	-14.03	1.46
Presses	-54.22	243.23	-12.71	157.91	95.34	-22.82
Forging Machines	19.30	-9.42	30.77	-58.30	-37.85	-29.52
Other Metal Forming	-17.37	-2.79	-39.55	58.89	-54.70	24.26
TOTAL	-33.65	-20.99	17.64	-3.19	26.79	-4.11

U.S. EXPORTS
Metal Cutting Machine Tools - November 90

RELEASED: January 30, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	76	6287	16	1061
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	74	13245	8	1412
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	19	4543	1	296
100035	Horiz. mach. ctrs., ATC	47	12686	3	846
100045	Mach. ctrs., n.e.c.	227	22771	13	1408
200010	Unit construction mach. (single station transfer), NC	2	230	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	3468	0	0
300010	Multi-station transfer machines, NC	15	25916	3	3516
300090	Multi-station transfer machines, non-NC	24	5959	1	556
8458110010	Horiz. lathes, multiple spindle, NC	25	5881	0	0
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	274	21052	18	1621
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	60	8171	7	1053
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	21	5343	1	102
190030	Horiz. engine or toolroom lathes, non-NC	108	1868	16	107
190050	Automatic bar and/or chucking mach., single spindle, non-NC	19	519	7	209
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	55	2855	9	518
190090	Horiz. lathes, n.e.c., non-NC	406	5183	25	263
911060	Vertical turret lathes, multiple spindle, NC	4	1255	0	0
911080	Vertical turret lathes, n.e.c., NC	5	793	2	288
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	15	1347	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	40	8658	0	0
991050	Vertical turret lathes, non-NC	37	810	3	50
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	76	4428	10	353
8459100000	Way-type unit head machines	23	6006	3	1880
210080	Other drilling machines, NC	91	8447	6	683
290040	Drilling machines, multiple spindle, non-NC	33	1704	1	165
290050	Drilling machines, radial, non-NC	21	209	1	10
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	100	2057	16	95
290090	Drilling machines, n.e.c., non-NC	685	4651	35	267
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	4	1664	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	8	2856	0	0
310070	Boring-milling mach., n.e.c., NC	19	1122	1	130
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	26	898	1	4
400040	Boring machines, vertical, NC	8	2483	1	249
400050	Boring machines, vertical, non-NC	41	1393	1	47
400070	Boring machines, n.e.c., NC	9	3308	0	0
400080	Boring machines, n.e.c., non-NC	30	1463	1	23
510080	Milling machines, knee type, NC	21	2200	0	0
590030	Milling machines, knee type, non-NC	112	4077	5	95
610080	Milling machines, excl. knee type, n.e.c., NC	58	20630	6	1767
690050	Milling machines, profile, dup., or die sinking, non-NC	23	533	0	0
690070	Milling machines, bed type, non-NC	2	288	0	0
690090	Milling machines, n.e.c., non-NC	190	6280	10	115
700020	Threading or tapping machines, n.e.c., NC	37	1496	4	104
700080	Threading or tapping machines, n.e.c., non-NC	701	6075	133	1125
8460110080	Flat surface grinding mach., NC	80	8576	7	331
190010	Flat surface grinding mach., recip.-table type, non-NC	54	946	2	52
190050	Flat surface grinding mach., n.e.c., non-NC	32	6813	4	763
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	101	28830	18	3890
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	51	6148	5	348
290030	Grinding mach., internal cylindrical, non-NC	46	3323	6	341
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	357	14411	15	443
310080	Sharpening machines (tool & cutter grinding), NC	48	4212	8	263
390050	Sharpening machines (tool & cutter grinding), non-NC	979	13783	96	711
400060	Honing or lapping machines, NC	3	618	0	0
400080	Honing or lapping machines, non-NC	792	13396	123	1302
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	9	1027	1	18
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1083	17429	114	2011
8461100060	Planing machines, NC	6	788	0	0
100080	Planing machines, non-NC	269	7203	33	456
200010	Shaping or slotting machines, NC	9	365	0	0
200090	Shaping or slotting machines, non-NC	38	1168	2	9
300060	Broaching machines, NC	13	1600	1	29
300080	Broaching machines, non-NC	26	1412	0	0
401050	Gear hobbers	36	4928	3	1122
401070	Gear shapers	47	6601	11	868
401090	Gear cutting machines, n.e.c.	87	36405	5	1899
405060	Gear grinding or finishing machines	62	4511	5	438
500050	Sawing or cutting-off machines, NC	113	4176	6	202
500090	Sawing or cutting-off machines, non-NC	1349	17721	119	1382
9000000001	Metal cutting machine tools, n.e.c.	1156	23504	81	2452
9800000001	Used or rebuilt machine tools	4719	55683	398	3523
9900000001	Machine tools valued at less than $2,500	35267	21783	2492	1591
	Cutting Total			3923	44864
	Y-T-D Cutting Total	50712	550718		
	NC Y-T-D Cutting Total*	1677	236825		

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - November 90

RELEASED: January 30, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	76	6287	16	1061
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	74	13245	8	1412
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	19	4543	1	296
100035	Horiz. mach. ctrs., ATC	47	12686	3	846
100045	Mach. ctrs., n.e.c.	227	22771	13	1408
200010	Unit construction mach. (single station transfer), NC	2	230	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	3468	0	0
300010	Multi-station transfer machines, NC	15	25916	3	3516
300090	Multi-station transfer machines, non-NC	24	5959	1	556
8458110010	Horiz. lathes, multiple spindle, NC	25	5881	0	0
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	274	21052	18	1621
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	60	8171	7	1053
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	21	5343	1	102
190030	Horiz. engine or toolroom lathes, non-NC	108	1868	16	107
190050	Automatic bar and/or chucking mach., single spindle, non-NC	19	519	7	209
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	55	2855	9	518
190090	Horiz. lathes, n.e.c., non-NC	406	5183	25	263
911060	Vertical turret lathes, multiple spindle, NC	4	1255	0	0
911080	Vertical turret lathes, n.e.c., NC	5	793	2	288
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	15	1347	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	40	8658	0	0
991050	Vertical turret lathes, non-NC	37	810	3	50
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	76	4428	10	353
8459100000	Way-type unit head machines	23	6006	3	1880
210080	Other drilling machines, NC	91	8447	6	683
290040	Drilling machines, multiple spindle, non-NC	33	1704	1	165
290050	Drilling machines, radial, non-NC	21	209	1	10
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	100	2057	16	95
290090	Drilling machines, n.e.c., non-NC	685	4651	35	267
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	4	1664	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	8	2856	0	0
310070	Boring-milling mach., n.e.c., NC	19	1122	1	130
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	26	898	1	4
400040	Boring machines, vertical, NC	8	2483	1	249
400050	Boring machines, vertical, non-NC	41	1393	1	47
400070	Boring machines, n.e.c., NC	9	3308	0	0
400080	Boring machines, n.e.c., non-NC	30	1463	1	23
510080	Milling machines, knee type, NC	21	2200	0	0
590030	Milling machines, knee type, non-NC	112	4077	5	95
610080	Milling machines, excl. knee type, n.e.c., NC	58	20630	6	1767
690050	Milling machines, profile, dup., or die sinking, non-NC	23	533	0	0
690070	Milling machines, bed type, non-NC	2	288	0	0
690090	Milling machines, n.e.c., non-NC	190	6280	10	115
700020	Threading or tapping machines, n.e.c., NC	37	1496	4	104
700080	Threading or tapping machines, n.e.c., non-NC	701	6075	133	1125
8460110080	Flat surface grinding mach., NC	80	8576	7	331
190010	Flat surface grinding mach., recip.-table type, non-NC	54	946	2	52
190050	Flat surface grinding mach., n.e.c., non-NC	32	6813	4	763
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	101	28830	18	3890
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	51	6148	5	348
290030	Grinding mach., internal cylindrical, non-NC	46	3323	6	341
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310080	Sharpening machines (tool & cutter grinding), NC	48	4212	8	263
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400080	Honing or lapping machines, non-NC	792	13396	123	1302
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	9	1027	1	18
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1083	17429	114	2011
8461100060	Planing machines, NC	6	788	0	0
100080	Planing machines, non-NC	269	7203	33	456
200010	Shaping or slotting machines, NC	9	365	0	0
200090	Shaping or slotting machines, non-NC	38	1168	2	9
300060	Broaching machines, NC	13	1600	1	29
300080	Broaching machines, non-NC	26	1412	0	0
401050	Gear hobbers	36	4928	3	1122
401070	Gear shapers	47	6601	11	868
401090	Gear cutting machines, n.e.c.	87	36405	5	1899
405060	Gear grinding or finishing machines	62	4511	5	438
500050	Sawing or cutting-off machines, NC	113	4176	6	202
500090	Sawing or cutting-off machines, non-NC	1349	17721	119	1382
9000000001	Metal cutting machine tools, n.e.c.	1156	23504	81	2452
9800000001	Used or rebuilt machine tools	4719	55683	398	3523
9900000001	Machine tools valued at less than $2,500	35267	21783	2492	1591
	Cutting Total			3923	44864
	Y-T-D Cutting Total	50712	550718		
	NC Y-T-D Cutting Total*	1677	236825		

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - November 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	1	296
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	2	710
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	1	180
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	2	1240	0	0	0	0	0	0	0	0
290010	0	0	1	36	0	0	0	0	0	0
290030	0	0	4	180	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	6	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	10	0	0	1	14	44	462
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	34	367	0	0	3	28
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	8	24	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	2	291	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	1	13	0	0	0	0	1	24
9000000001	0	0	5	59	0	0	0	0	0	0
9800000001	0	0	21	35	0	0	1	26	1	6
9900000001	0	0	5	3	19	22	0	0	28	22
Month Tot	4	1531	47	367	53	389	2	40	81	1728
Y-T-D Tot	241	19192	1107	8467	781	19607	184	345	1638	17090
NC YTD Tot*	64	12110	53	3716	30	9703	0	0	54	5674

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - November 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	1	270	0	0	0	0	0	0	0	0
100045	0	0	1	72	0	0	6	485	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	556	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	2	141	0	0	0	0	1	144	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	12	47	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	3	174	0	0	0	0	0	0	0	0
190090	0	0	1	29	0	0	7	63	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	2	32	0	0
995090	0	0	0	0	0	0	3	79	0	0
8459100000	0	0	0	0	0	0	1	140	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	22	200	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	1	130	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	4	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	27	0	0	2	34	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	2	54	0	0	0	0	6	31	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	2	50	0	0	0	0	13	88	0	0
8460110080	0	0	0	0	0	0	2	190	2	55
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	10	1195	0	0	0	0	1	224	0	0
290010	2	177	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	4	141	0	0	0	0	5	120	0	0
310080	0	0	0	0	0	0	2	48	0	0
390050	30	274	2	14	0	0	4	17	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	70	732	0	0	0	0	0	0
900060	0	0	1	18	0	0	0	0	0	0
900080	12	133	3	26	0	0	6	167	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	3	4	88	0	0	3	11	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	3	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	1	370	7	366	0	0	0	0	0	0
401090	3	1744	2	156	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	14	191	10	184	0	0	13	117	19	131
9000000001	10	752	0	0	0	0	4	21	0	0
9800000001	11	108	8	66	0	0	177	521	10	83
9900000001	22	29	88	59	14	21	917	269	15	9
Month Tot	132	6389	197	1810	16	56	1210	3150	46	279
Y-T-D Tot	4079	43057	2234	43226	403	2333	9892	49777	534	5979
NC YTD Tot*	139	14521	61	12600	2	131	180	13930	11	915

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - November 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	1	46	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	1	159	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	7
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	2	26
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	1	43	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	1	249	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	1	118	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	8	50	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	16	0	0	1	22	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	1	13	4	42	4	18	1	11
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	1	31
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	3	148	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	3	40	0	0	0	0	1	20	0	0
9000000001	10	146	0	0	0	0	1	59	0	0
9800000001	4	96	0	0	1	3	1	399	2	5
9900000001	146	55	9	5	42	46	80	108	29	44
Month Tot	173	475	12	152	51	488	89	785	36	125
Y-T-D Tot	1899	8139	672	5713	998	5255	834	10915	419	2173
NC YTD Tot*	19	2489	43	1637	5	1431	25	5599	6	320

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - November 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	2	93	0	0	0	0	10	668	0	0
8457100015	0	0	0	0	0	0	1	174	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	1	138
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	3	3516	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	11	787	0	0	0	0	1	63	0	0
110050	3	207	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	4	60	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	1	22	0	0	0	0	1	84	1	62
190090	3	12	0	0	0	0	0	0	6	62
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	1	108
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	1	17
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	2	1740
210080	0	0	0	0	0	0	5	553	1	130
290040	0	0	0	0	0	0	1	165	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	1	23
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	1	249	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	2	34
610080	1	1178	0	0	0	0	0	0	5	589
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	2	180	0	0	3	328	1	113	15	108
8460110080	0	0	0	0	0	0	0	0	2	56
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	1	170	2	405
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	1	43	0	0
290050	0	0	0	0	0	0	3	111	0	0
310080	0	0	0	0	0	0	0	0	6	215
390050	0	0	0	0	0	0	10	60	2	10
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	12	0	0	2	23
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	2	16	3	273	8	144
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	1	3	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	1	6	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	2	576	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	1	41	2	91
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	15	119	0	0	0	0	18	290	12	164
9000000001	0	0	0	0	0	0	9	75	22	1173
9800000001	8	306	0	0	0	0	26	160	36	264
9900000001	71	57	0	0	52	31	218	113	395	402
Month Tot	125	3851	0	0	58	387	314	6675	525	5957
Y-T-D Tot	3898	43110	38	7862	992	6850	2927	50247	7848	43881
NC YTD Tot*	205	27698	0	0	13	1144	70	21805	137	13974

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 90

RELEASED: January 30, 1991

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	314	8225	33	370
8462100030	Headers and upsetters, including cold headers	53	18524	4	1967
100050	Forging or die stamping machines, and hammers, n.e.c.	282	25654	14	1434
210080	Bending, folding, straight. or flat. mach., incl presses, NC	322	30749	41	4205
290030	Press brakes, non-NC	148	3634	13	509
290040	Bending rolls, non-NC	75	2434	8	310
290050	Bending, folding, straight., or flat., n.e.c., non-NC	1137	28584	77	1258
310080	Shearing machines, NC	84	7341	13	1031
390050	Shearing machines, non-NC	372	9177	87	1438
410080	Punching or notching mach., incl. comb. punch & shear, NC	159	23580	16	2889
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	775	20021	51	1325
910060	Hydraulic presses, NC	79	4820	6	142
910090	Hydraulic presses, non-NC	551	25654	38	4632
990030	Presses, n.e.c., NC	140	11651	9	503
990040	Presses, mechanical, non-NC	100	11199	9	1781
990060	Presses, n.e.c., non-NC	1030	36695	51	4226
8463100080	Draw benches for bars, tubes, profiles, wire or the like	215	6351	26	1413
200080	Thread rolling machines	54	2539	5	360
300080	Machines for working wire	681	20934	45	1248
900080	Metal forming machine tools, n.e.c.	1548	54878	123	6593
9800000002	Used or rebuilt machine tools	3064	56822	237	3784
9900000002	Machine tools valued at less than $2,500	12870	10032	1093	913
	Forming Total			1999	42332
	Y-T-D Forming Total	24053	419499		
	NC Y-T-D Forming Total	784	78142		
	Cutting and Forming Totals: Monthly Total			5922	87196
	Y-T-D Total	74765	970216		
	NC Y-T-D Total*	2461	314968		

Other Manufacturing Technology		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
1000000000	Machine tool parts and accessories	0	663803	0	67503
2000000000	Parts for working rubber or plastics - heading 8477	0	259769	0	23692
2710003070	Quenching or cutting oils	0	18118	0	439
8428900010	Industrial robots for lifting, handling, loading or unload	318	6427	21	355
8431390090	Parts industrial robots, handling and loading - heading 8428	0	69442	0	5553
8456100000	Laser, light or photon beam for working any material	861	42990	65	2467
200000	Ultrasonic process for working any material	72	1828	1	32
8477106010	Injection molding mach., for rubber or oth. thermosetting	274	19026	17	1031
106070	Injection molding mach., for thermoplastics	386	46892	24	3599
200010	Extruders for rubber or other thermosetting materials	329	15339	18	1657
200050	Extruders for processing thermoplastics	793	39663	76	2440
300000	Blow molding machines	508	39547	18	2520
400000	Vacuum-molding and other thermoforming machines	4643	13233	66	1310
510010	Machines for molding or retreading pneumatic tires	1445	19467	56	2242
510090	Machines for molding or otherwise forming inner tubes	390	28400	24	199
590000	Machines for molding or otherwise forming n.e.c.	1318	21922	108	1769
800000	Machines for working rubber or plastics n.e.c.	5021	101909	269	9492
8479899040	Industrial robots, n.e.c.	5318	51697	236	4354
908040	Industrial robot parts	0	25864	0	1538
8537100030	Numerical controls for controlling machine tools	1831	27225	103	1419
9024100000	Machines and appliances for testing metals	0	69589	0	6307
9031100000	Machines for balancing mechanical parts	0	26369	0	1473
300000	Profile projectors	0	6684	0	618
9032810040	Industrial process control instr., hydraulic or pneumatic	744880	55790	151257	11221

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	8	0	0	0	0	1	4	0	0
8462100030	0	0	0	0	0	0	2	675	0	0
100050	0	0	0	0	0	0	0	0	6	635
210080	0	0	0	0	0	0	1	270	5	559
290030	0	0	0	0	0	0	6	244	4	158
290040	0	0	0	0	0	0	0	0	5	225
290050	5	98	0	0	0	0	0	0	30	290
310080	0	0	0	0	0	0	0	0	1	108
390050	0	0	0	0	0	0	26	437	10	354
410080	0	0	0	0	0	0	0	0	2	285
490050	0	0	0	0	0	0	2	30	14	147
910060	0	0	0	0	0	0	0	0	1	50
910090	0	0	3	100	0	0	1	136	1	31
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	4	185	0	0
990060	1	16	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	2	787
200080	0	0	0	0	0	0	0	0	0	0
300080	1	15	1	19	0	0	0	0	10	246
900080	0	0	0	0	0	0	1	1200	17	147
9800000002	0	0	0	0	0	0	4	73	46	485
9900000002	12	10	0	0	20	22	12	9	178	177
Month Tot	20	147	4	119	20	22	60	3262	332	4685
Y-T-D Tot	460	6178	69	2428	579	2599	614	9234	3945	63118
NC YTD Tot	28	1979	0	0	0	0	10	804	160	20271
C&F Month	128	1075	15	137	145	762	147	4982	753	11509
C&F Y-T-D	2120	21305	224	2691	1284	21199	1306	24834	9827	171031
C&F NC YTD*	46	9117	1	23	146	16028	44	5626	521	79690

Other Manufacturing Technology

1000000000	0	576	0	89	0	423	0	1155	0	14068
2000000000	0	147	0	49	0	927	0	386	0	7622
2710003070	0	29	0	0	0	9	0	0	0	69
8428900010	1	5	0	0	1	149	0	0	0	0
8431390090	0	178	0	3	0	10	0	19	0	1318
8456100000	0	0	0	0	2	52	0	0	6	551
200000	0	0	0	0	0	0	0	0	1	32
8477106010	0	0	0	0	0	0	0	0	0	0
106070	1	40	0	0	0	0	0	0	11	2293
200010	0	0	0	0	0	0	0	0	11	1096
200050	20	494	0	0	2	244	2	50	15	381
300000	0	0	0	0	0	0	0	0	4	597
400000	0	0	0	0	0	0	0	0	4	527
510010	0	0	0	0	0	0	0	0	0	0
510090	1	8	0	0	0	0	0	0	0	0
590000	0	0	0	0	4	63	0	0	3	106
800000	2	28	0	0	0	0	2	22	109	2985
8479899040	0	0	0	0	0	0	0	0	141	2507
908040	0	7	0	0	0	0	0	0	0	889
8537100030	0	0	0	0	0	0	0	0	8	89
9024100000	0	37	0	28	0	46	0	51	0	394
9031100000	0	39	0	0	0	96	0	19	0	416
300000	0	0	0	0	0	0	0	0	0	42
9032810040	571	61	507	79	3547	177	26	5	2245	194

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	10	2	16	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	200	0	0	0	0
210080	10	2215	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	6	38	1	8	6	161	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	5	395	1	73	0	0	0	0
910060	4	49	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	1	91	0	0	0	0	0	0
990040	2	1200	0	0	0	0	0	0	0	0
990060	13	770	1	562	1	19	0	0	0	0
8463100080	0	0	0	0	2	33	0	0	0	0
200080	0	0	1	44	0	0	0	0	0	0
300080	0	0	1	7	0	0	0	0	7	123
900080	0	0	1	600	6	161	0	0	2	50
9800000002	0	0	7	75	0	0	0	0	9	201
9900000002	8	6	44	38	0	0	8	7	0	0
Month Tot	37	4241	68	1860	14	510	14	168	18	374
Y-T-D Tot	412	16674	618	18293	411	6568	258	6741	313	8234
NC YTD Tot	21	4945	46	4541	0	0	4	701	11	1432
C&F Month	41	5772	115	2228	67	899	16	208	99	2102
C&F Y-T-D	653	35866	1725	26760	1192	26175	442	7086	1951	25323
C&F NC YTD*	85	17054	99	8257	30	9703	4	701	65	7106

Other Manufacturing Technology

1000000000	0	500	0	1532	0	660	0	118	0	750
2000000000	0	22	0	258	0	374	0	66	0	253
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	0	0	164	0	28	0	50	0	0
8456100000	0	0	2	36	1	12	0	0	1	17
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	2	145
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	15	379	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	4	28	0	0	0	0	0	0	9	10
510010	0	0	0	0	3	420	0	0	3	25
510090	0	0	4	94	0	0	0	0	0	0
590000	0	0	13	229	8	66	0	0	0	0
800000	1	89	2	1305	3	1379	4	63	3	30
8479899040	0	0	0	0	0	0	0	0	2	634
908040	0	0	0	42	0	0	0	0	0	77
8537100030	0	0	8	117	0	0	0	0	7	85
9024100000	0	1386	0	36	0	6	0	35	0	108
9031100000	0	0	0	0	0	61	0	0	0	0
300000	0	0	0	68	0	0	0	0	0	0
9032810040	124	14	5694	294	146	51	0	0	1152	237

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	3	40	5	52
8462100030	1	564	0	0	0	0	0	0	0	0
100050	0	0	2	359	1	49	2	96	0	0
210080	0	0	0	0	2	68	4	175	0	0
290030	0	0	0	0	0	0	0	0	1	7
290040	0	0	0	0	0	0	1	30	0	0
290050	3	66	1	190	0	0	7	93	0	0
310080	3	186	0	0	0	0	4	203	3	154
390050	20	323	0	0	0	0	5	150	1	49
410080	0	0	0	0	0	0	0	0	5	853
490050	1	27	1	9	0	0	5	102	0	0
910060	0	0	0	0	0	0	1	43	0	0
910090	0	0	0	0	0	0	11	802	0	0
990030	0	0	0	0	0	0	7	140	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	17	981	2	997	0	0	9	61	0	0
8463100080	8	51	0	0	0	0	3	89	0	0
200080	0	0	0	0	0	0	1	12	0	0
300080	3	52	7	319	0	0	2	30	0	0
900080	3	63	22	1785	0	0	6	84	13	262
9800000002	1	7	18	356	0	0	108	1417	0	0
9900000002	124	65	4	3	0	0	150	131	47	16
Month Tot	184	2386	57	4018	3	117	329	3698	75	1393
Y-T-D Tot	1746	32613	698	33025	104	4498	5241	49773	396	8816
NC YTD Tot	33	3587	50	4118	18	989	111	6134	55	5259
C&F Month	316	8775	254	5828	19	173	1539	6849	121	1672
C&F Y-T-D	5825	75669	2932	76251	507	6831	15133	99550	930	14795
C&F NC YTD*	172	18108	111	16718	20	1120	291	20064	66	6173

Other Manufacturing Technology

1000000000	0	5741	0	13714	0	320	0	3461	0	1022
2000000000	0	552	0	2993	0	215	0	1719	0	222
2710003070	0	54	0	11	0	0	0	26	0	34
8428900010	7	92	0	0	0	0	0	0	0	0
8431390090	0	355	0	80	0	0	0	466	0	155
8456100000	34	909	0	0	2	51	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	11	693	3	200
106070	1	147	0	0	0	0	3	495	0	0
200010	0	0	0	0	0	0	6	362	0	0
200050	0	0	0	0	1	46	15	424	1	130
300000	0	0	0	0	0	0	1	28	0	0
400000	23	4	2	54	0	0	21	599	0	0
510010	0	0	0	0	0	0	9	159	5	45
510090	0	0	0	0	0	0	0	0	0	0
590000	6	186	1	9	0	0	7	41	1	8
800000	2	68	14	258	1	18	49	1006	0	0
8479899040	33	640	1	5	0	0	2	10	0	0
908040	0	84	0	3	0	0	0	0	0	21
8537100030	5	68	6	88	0	0	4	47	0	0
9024100000	0	1040	0	317	0	3	0	116	0	65
9031100000	0	0	0	415	0	0	0	91	0	0
300000	0	0	0	50	0	0	0	0	0	0
9032810040	257	2609	1150	76	0	0	234	172	5496	275

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	2	65	0	0
290030	0	0	0	0	0	0	2	100	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	23	1	12	2	25	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	1	3	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	1	82	0	0
490050	9	50	0	0	0	0	0	0	5	38
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	3	2859	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	1	61	0	0
990060	0	0	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	35	0	0	0	0	1	52
900080	2	55	1	18	0	0	0	0	0	0
9800000002	3	50	0	0	0	0	2	17	4	66
9900000002	55	51	0	0	43	37	6	5	12	8
Month Tot	72	232	3	65	45	63	17	3188	22	164
Y-T-D Tot	512	5555	152	5561	351	2111	413	16852	210	4287
NC YTD Tot	7	746	25	499	2	65	29	1869	4	155
C&F Month	245	708	15	217	96	551	106	3973	58	290
C&F Y-T-D	2411	13694	824	11274	1349	7366	1247	27766	629	6460
C&F NC YTD*	26	3235	68	2136	7	1496	54	7468	10	474

Other Manufacturing Technology

1000000000	0	1215	0	278	0	912	0	459	0	458
2000000000	0	242	0	815	0	139	0	551	0	148
2710003070	0	0	0	0	0	0	0	66	0	24
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	295	0	4	0	0	0	24	0	0
8456100000	0	0	0	0	0	0	2	256	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	10	180	0	0	0	0	1	380
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	0	0	0	0	4	22
800000	8	40	3	51	0	0	3	5	0	0
8479899040	0	0	0	0	1	4	0	0	0	0
908040	0	20	0	6	0	28	0	0	0	0
100030	8	117	0	0	1	8	1	10	0	0
9024100000	0	46	0	95	0	29	0	121	0	4
9031100000	0	62	0	28	0	0	0	0	0	0
300000	0	7	0	0	0	42	0	34	0	0
9032810040	1761	127	366	22	95	16	792	59	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	3	0	0	0	0	1	13	18	224
8462100030	0	0	0	0	0	0	1	728	0	0
100050	1	59	0	0	0	0	0	0	1	36
210080	2	173	0	0	0	0	0	0	15	680
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	2	55
290050	2	42	0	0	0	0	2	53	9	159
310080	0	0	0	0	2	380	0	0	0	0
390050	2	28	0	0	0	0	0	0	22	94
410080	8	1670	0	0	0	0	0	0	0	0
490050	1	9	0	0	0	0	4	140	3	305
910060	0	0	0	0	0	0	0	0	0	0
910090	1	105	0	0	2	48	2	55	14	496
990030	0	0	0	0	0	0	0	0	1	272
990040	0	0	0	0	0	0	1	10	1	325
990060	0	0	0	0	0	0	4	769	3	51
8463100080	2	15	0	0	0	0	6	89	3	348
200080	0	0	0	0	0	0	0	0	3	304
300080	6	250	0	0	0	0	1	22	4	78
900080	3	1000	0	0	0	0	41	1040	5	129
9800000002	5	320	0	0	2	24	3	57	25	636
9900000002	81	80	0	0	11	7	52	47	226	193
Month Tot	115	3753	0	0	17	459	118	3022	355	4385
Y-T-D Tot	1926	35159	22	733	305	2011	1391	25908	2907	52531
NC YTD Tot	62	6535	1	136	5	459	14	1699	88	11220
C&F Month	240	7604	0	0	75	847	432	9697	880	10342
C&F Y-T-D	5824	78269	60	8594	1297	8861	4318	76155	10755	96412
C&F NC YTD*	267	34233	1	136	18	1603	84	23504	225	25194

Other Manufacturing Technology

1000000000	0	6207	0	0	0	963	0	5257	0	7625
2000000000	0	632	0	252	0	373	0	1559	0	3175
2710003070	0	0	0	0	0	0	0	0	0	117
8428900010	2	23	0	0	0	0	10	87	0	0
8431390090	0	99	0	0	0	93	0	34	0	2179
8456100000	1	15	0	0	1	14	5	180	8	374
200000	0	0	0	0	0	0	0	0	0	0
8477106010	3	138	0	0	0	0	0	0	0	0
106070	1	67	0	0	1	40	2	272	2	100
200010	0	0	0	0	0	0	1	200	0	0
200050	0	0	0	0	1	78	1	10	3	204
300000	1	1318	0	0	0	0	0	0	1	17
400000	0	0	0	0	0	0	0	0	3	87
510010	1	31	0	0	14	1099	7	187	14	275
510090	8	7	0	0	0	0	0	0	11	90
590000	34	610	0	0	0	0	8	272	19	157
800000	16	325	0	0	8	114	0	0	39	1707
8479899040	0	0	0	0	5	33	51	523	0	0
908040	0	190	0	0	0	0	0	102	0	70
8537100030	27	400	0	0	1	8	7	139	20	241
9024100000	0	767	0	233	0	23	0	1006	0	315
9031100000	0	0	0	0	0	4	0	16	0	225
300000	0	311	0	0	0	0	0	15	0	49
9032810040	123000	6286	0	0	1	4	1381	163	2712	300

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
November 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	24	16	34	108	58	123
East Germany	0	0	0	0	0	0
Finland	20	52	8	17	28	69
Greece	0	0	2	40	2	40
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	23	93	21	437	44	530
Luxembourg	0	0	0	0	0	0
Norway	4	80	37	32	41	111
Poland	0	0	0	0	0	0
Portugal	5	3	0	0	5	3
Romania	0	0	0	0	0	0
Sweden	47	50	22	263	69	313
Turkey	59	2450	25	167	84	2617
Yugoslavia	4	49	0	0	4	49
Oth Europe	0	0	8	33	8	33
TOTAL	998	17089	623	11769	1621	28858
NORTH AND CENTRAL AMERICA						
Bahamas	3	4	0	0	3	4
Barbados	0	0	0	0	0	0
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	5	554	4	56	9	610
Dominican Rep	5	168	4	87	9	254
El Salvador	1	17	0	0	1	17
Guatemala	1	3	0	0	1	3
Haiti	0	0	0	0	0	0
Honduras	0	0	2	42	2	42
Jamaica	2	27	0	0	2	27
Panama	0	0	6	5	6	5
Trinidad	0	0	3	72	3	72
Oth N & C Am.	24	29	10	9	34	38
TOTAL	1672	10777	690	8654	2362	19430
SOUTH AMERICA						
Argentina	27	17	14	691	41	708
Bolivia	2	56	0	0	2	56
Chile	26	245	16	106	42	352
Colombia	7	25	19	349	26	374
Ecuador	0	0	1	6	1	6
Paraguay	2	19	4	8	6	27
Peru	4	9	2	10	6	19
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	1	15	1	15
TOTAL	213	2478	134	4906	347	7384
OCEANIA						
New Zealand	4	200	0	0	4	200
Oth Oceania	2	6	0	0	2	6
TOTAL	114	1134	20	147	134	1281

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
November 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	116	455	31	33	147	488
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	35	742	11	375	46	1117
Jordan	8	5	1	18	9	22
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	3	31	0	0	3	31
Pakistan	0	0	4	41	4	41
Philippines	8	155	23	625	31	780
Qatar	0	0	0	0	0	0
Saudi Arabia	25	32	4	122	29	154
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	7	17	0	0	7	17
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	14	60	14	60
TOTAL	904	13037	508	16299	1412	29335
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	6	298	1	74	7	372
Ethiopia	0	0	9	172	9	172
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	16	51	14	313	30	364
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	22	349	24	559	46	908

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

RELEASED: January 30, 1991

U.S. IMPORTS - Metal Cutting Machine Tools - November 90

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	788	55193	59	4465
301050	Electro-discharge machines, n.e.c., NC	310	18844	13	867
301070	Electro-discharge machines, n.e.c., non-NC	422	8959	120	1290
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1890	151942	118	11092
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	129	24246	11	1658
100035	Horiz. mach. ctrs., ATC	582	131724	35	9211
100045	Mach. ctrs., n.e.c.	206	62478	4	1749
200010	Unit construction mach. (single station transfer), NC	20	2577	1	221
200090	Unit construction mach. (single station transfer), non-NC	2	517	0	0
300010	Multi-station transfer machines, NC	51	38642	2	1566
300090	Multi-station transfer machines, non-NC	82	36895	6	1184
8458110010	Horiz. lathes, multiple spindle, NC	266	47112	13	2199
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1985	141118	91	7122
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	528	74858	21	3389
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	48	13456	1	170
190030	Horiz. engine or toolroom lathes, non-NC	3933	40565	417	3591
190050	Automatic bar and/or chucking mach., single spindle, non-NC	836	14805	63	792
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	127	10453	5	1135
190090	Horiz. lathes, n.e.c., non-NC	1591	15803	124	1006
911060	Vertical turret lathes, multiple spindle, NC	22	3936	0	0
911080	Vertical turret lathes, n.e.c., NC	56	11581	7	1898
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	93	11951	13	2804
991050	Vertical turret lathes, non-NC	97	4245	2	178
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	1080	20658	60	762
8459100000	Way-type unit head machines	6	1822	1	104
210080	Other drilling machines, NC	309	22200	18	1572
290040	Drilling machines, multiple spindle, non-NC	74	1869	0	0
290050	Drilling machines, radial, non-NC	444	3147	47	192
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	79	773	4	16
290090	Drilling machines, n.e.c., non-NC	421	14109	14	638
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	10	2476	1	68
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	85	13213	3	941
310070	Boring-milling mach., n.e.c., NC	38	2953	6	101
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	28	2199	1	198
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	96	5912	3	19
400040	Boring machines, vertical, NC	3	1471	0	0
400050	Boring machines, vertical, non-NC	64	1974	15	288
400070	Boring machines, n.e.c., NC	28	3553	1	271
400080	Boring machines, n.e.c., non-NC	256	6607	50	704
510080	Milling machines, knee type, NC	509	9289	24	420
590030	Milling machines, knee type, non-NC	3075	22157	289	1978
610080	Milling machines, excl. knee type, n.e.c., NC	485	23172	43	2481
690050	Milling machines, profile, dup., or die sinking, non-NC	34	386	1	42
690070	Milling machines, bed type, non-NC	52	3647	3	362
690090	Milling machines, n.e.c., non-NC	800	19762	72	928
700020	Threading or tapping machines, n.e.c., NC	163	8933	24	1755
700080	Threading or tapping machines, n.e.c., non-NC	178	5100	29	644
8460110080	Flat surface grinding mach., NC	126	12301	9	966
190010	Flat surface grinding mach., recip.-table type, non-NC	1023	11890	50	566
190050	Flat surface grinding mach., n.e.c., non-NC	1799	18098	150	1287
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	473	81410	41	5751
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	455	17917	38	2357
290030	Grinding mach., internal cylindrical, non-NC	214	11552	22	349
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	1028	42092	46	2478
310080	Sharpening machines (tool & cutter grinding), NC	234	5564	11	328
390050	Sharpening machines (tool & cutter grinding), non-NC	755	9063	45	495
400060	Honing or lapping machines, NC	34	4576	0	0
400080	Honing or lapping machines, non-NC	223	8176	18	318
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	52	3705	5	47
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1407	39416	118	1963
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	8	53	0	0
200010	Shaping or slotting machines, NC	83	2974	0	0
200090	Shaping or slotting machines, non-NC	158	6735	2	10
300060	Broaching machines, NC	13	11534	2	383
300080	Broaching machines, non-NC	78	7289	6	2788
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	113	10401	6	1551
401040	Gear shapers	30	10901	0	0
401060	Gear cutting machines, n.e.c.	169	583	14	13
405050	Gear grinding or finishing for bevel gears	60	1679	0	0
405070	Gear grinding or finishing machines, n.e.c.	101	26617	20	2228
500050	Sawing or cutting-off machines, NC	99	6038	9	190
500090	Sawing or cutting-off machines, non-NC	1793	30183	114	1421
9000000001	Metal cutting machine tools, n.e.c.	350	18016	40	1591
9800000001	Used or rebuilt machine tools	7295	30648	921	1724
9900000001	Machine tools valued at less than $2,500	863188	85523	77160	6772
	Cutting Total			80682	107641
Please see notes on last page	Y-T-D Cutting Total	903742	1634218		
of the metal forming section.	NC Y-T-D Cutting Total	9745	1011052		

U.S. IMPORTS - Metal Cutting Machine Tools - November 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	1	18	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	2	178	0	0
995090	0	0	31	331	2	10	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	6	0	0	2	13
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	1	3	11	167
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	3	76	28	547	1	5
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	5	722	2	70	0	0
690050	0	0	0	0	0	0	0	0	1	42
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	2	37
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	1	5	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	4	36	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	1	0	0	11	32	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	6	19	2	133	0	0
400050	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900050	1	3	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	1	3	9	231
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	1	3	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	1	14
500090	0	0	0	0	24	233	0	0	0	0
9000000001	0	0	0	0	0	0	0	0	0	0
9800000001	1	3	1	9	7	17	1	8	3	133
9900000001	15	4	0	0	37	30	62	110	2280	565
Month Tot	18	12	32	340	103	1208	99	1052	2310	1208
Y-T-D Tot	68	1670	2006	12277	1538	19946	1782	22586	31451	50804
NC YTD Tot	4	122	7	573	47	5176	81	9149	126	16656

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - November 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	49	3735	0	0	0	0	0	0	0	0
301050	9	548	0	0	0	0	0	0	0	0
301070	4	88	0	0	0	0	0	0	101	162
8457100015	82	7916	0	0	10	676	0	0	0	0
100025	9	1418	0	0	0	0	0	0	0	0
100035	34	9066	0	0	0	0	0	0	0	0
100045	4	1749	0	0	0	0	0	0	0	0
200010	0	0	1	221	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	2	1566	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	11	1706	0	0	0	0	0	0	0	0
110030	58	5421	2	139	0	0	0	0	0	0
110050	15	2089	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	1	170	0	0
190030	1	43	13	143	26	353	48	437	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	3	305	0	0	0	0	0	0	0	0
190090	16	55	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	2	784	1	120	0	0	0	0	1	581
915050	0	0	0	0	0	0	0	0	0	0
915070	13	2804	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	1	35	5	271	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	15	1339	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	17	53
290070	4	16	0	0	0	0	0	0	0	0
290090	9	365	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	1	198	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	2	105	0	0	0	0	0	0	0	0
400070	1	271	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	3	56	0	0	0	0	156	1216	0	0
610080	1	392	0	0	0	0	2	128	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	1	42	0	0	0	0	0	0	2	320
690090	1	57	0	0	2	7	0	0	2	41
700020	24	1755	0	0	0	0	0	0	0	0
700080	1	185	0	0	0	0	0	0	0	0
8460110080	2	65	0	0	0	0	0	0	0	0
190010	1	108	0	0	29	374	0	0	0	0
190050	6	16	0	0	0	0	1	37	0	0
210080	17	4978	0	0	0	0	0	0	0	0
290010	15	604	0	0	0	0	0	0	0	0
290030	1	123	0	0	0	0	0	0	0	0
290050	10	1061	0	0	0	0	2	167	0	0
310080	1	43	0	0	0	0	0	0	0	0
390050	11	141	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	5	185	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	35	903	0	0	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	2	383	0	0	0	0	0	0	0	0
300080	2	7	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	1	43	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	1	7	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	23	495	0	0	0	0	0	0	0	0
9000000001	1	70	0	0	0	0	0	0	0	0
9800000001	66	321	800	90	0	0	0	0	4	121
9900000001	3878	599	222	29	36	6	0	0	384	410
Month Tot	4453	54217	1045	1057	103	1416	210	2156	511	1689
Y-T-D Tot	60216	795366	11749	17073	1048	17720	2020	24298	2869	15920
NC YTD Tot	5697	673676	126	9050	162	8673	93	2795	18	5753

Please see notes on last page of the metal forming section.

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	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	4	576	3	43	0	0	0	0	3	112
301050	3	301	0	0	1	18	0	0	0	0
301070	2	289	8	42	1	529	1	68	3	113
8457100015	0	0	0	0	15	1159	7	1256	4	84
100025	0	0	2	240	0	0	0	0	0	0
100035	0	0	1	145	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	5	983	0	0	0	0	1	202	0	0
8458110010	0	0	0	0	0	0	2	493	0	0
110030	1	180	8	547	12	563	0	0	10	272
110050	0	0	0	0	1	154	0	0	5	1146
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	69	527	17	338	0	0	242	1732
190050	1	132	36	270	2	290	0	0	24	100
190070	2	830	0	0	0	0	0	0	0	0
190090	0	0	33	373	20	391	0	0	55	187
911060	0	0	0	0	0	0	0	0	0	0
911080	3	413	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	8	23	1	7	4	42	8	43
8459100000	0	0	0	0	1	104	0	0	0	0
210080	0	0	0	0	0	0	2	219	1	14
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	30	139
290070	0	0	0	0	0	0	0	0	0	0
290090	1	23	0	0	0	0	2	174	2	76
310010	0	0	0	0	0	0	0	0	1	68
310040	1	804	0	0	0	0	2	137	0	0
310070	0	0	0	0	0	0	6	101	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	1	13	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	16	70	2	6
510080	0	0	13	142	1	64	10	214	0	0
590030	0	0	55	340	0	0	6	75	69	291
610080	1	66	16	147	2	56	5	846	9	54
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	25	118	0	0	9	397	31	271
700020	0	0	0	0	0	0	0	0	0	0
700080	27	70	0	0	0	0	1	389	0	0
8460110080	1	75	0	0	0	0	6	826	0	0
190010	0	0	20	84	0	0	0	0	0	0
190050	2	120	81	622	13	240	2	173	44	74
210080	3	105	0	0	1	262	19	400	1	6
290010	8	1336	0	0	3	63	7	312	1	7
290030	1	85	0	0	0	0	0	0	20	140
290050	1	65	4	35	6	88	10	996	1	32
310080	0	0	0	0	5	42	4	147	1	96
390050	1	10	0	0	19	118	3	28	3	45
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	2	20	11	113	0	0	0	0
900060	0	0	0	0	0	0	0	0	4	43
900080	7	122	5	41	5	22	31	507	25	134
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	6	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	1	2416	3	365	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	2	158	0	0	0	0	3	1350	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	5	11	9	3	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	7	1316	0	0	0	0	12	905	0	0
500050	0	0	4	71	0	0	4	105	0	0
500090	2	12	14	97	11	93	6	289	34	202
9000000001	7	419	0	0	0	0	4	329	28	773
9800000001	7	352	0	0	17	362	12	233	2	74
9900000001	85	34	58519	4055	105	48	166	83	11371	797
Month Tot	185	8875	58926	7982	276	7550	377	11750	12034	7130
Y-T-D Tot	2076	84203	667671	116925	5106	95747	12079	287128	102063	72556
NC YTD Tot	353	31464	803	26796	725	61672	911	137607	592	21889

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 90

RELEASED: January 30, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	353	26690	17	2434
8462100030	Headers and upsetters, including cold headers	155	14597	11	1112
100050	Forging or die stamping machines, and hammers, n.e.c.	753	42688	57	2291
210080	Bending, folding, straight. or flat. mach., incl presses, NC	509	37423	51	4212
290030	Press brakes, non-NC	288	8322	20	664
290040	Bending rolls, non-NC	91	2948	5	132
290050	Bending, folding, straight., or flat., n.e.c., non-NC	1146	38664	91	3321
310080	Shearing machines, NC	53	4367	2	464
390050	Shearing machines, non-NC	550	15904	42	981
410080	Punching or notching mach., incl. comb. punch & shear, NC	312	37634	19	4010
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	647	15352	85	5066
910060	Hydraulic presses, NC	20	19919	1	1127
910090	Hydraulic presses, non-NC	2374	16741	35	443
990030	Presses, n.e.c., NC	51	4820	0	0
990035	Mechanical transfer presses, non-NC	14	24303	1	9402
990045	Mechanical presses, n.e.c., non-NC	161	5328	6	985
990060	Presses, n.e.c., non-NC	736	33876	60	6078
8463100080	Draw benches for bars, tubes, profiles, wire or the like	124	7567	16	1719
200080	Thread rolling machines	82	5498	3	480
300080	Machines for working wire	1302	63621	84	6574
900080	Metal forming machine tools, n.e.c.	673	30712	94	4585
9800000002	Used or rebuilt machine tools	1378	20543	78	1457
9900000002	Machine tools valued at less than $2,500	18745	5244	2915	358
	Forming Total			3693	57894
	Y-T-D Forming Total	30517	482762		
	NC Y-T-D Forming Total	945	104163		
	Cutting and Forming Totals:				
	Monthly Total			84375	165535
	Y-T-D Total	934259	2116980		
	NC Y-T-D Total	10690	1115216		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	513316	0	45614
2000000000	Parts for working rubber or plastics - heading 8477	0	296758	0	26087
2710003070	Quenching or cutting oils	0	319	0	6
8428900010	Industrial robots for lifting, handling, loading or unload	1772	34808	82	3444
8431390080	Parts industrial robots, handling and loading - heading 8428	0	86722	0	7985
8456101010	Laser, light or photon beam for working metal, NC	158	29246	10	1825
101020	Laser, light or photon beam for working metal, non-NC	75	4031	8	390
105000	Laser, light or photon beam for other materials	547	8832	4	368
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	13	158	0	0
205000	Ultrasonic processes for working other materials	59	229	3	34
8477103000	Injection molding mach., for manufacturing shoes	146	3207	5	135
106010	Injection molding mach., for rubber or oth. thermosetting	771	64393	70	6818
106050	Injection molding mach., for thermoplastics	2314	207148	178	11451
200010	Extruders for rubber or other thermosetting materials	196	14273	10	645
200050	Extruders for processing thermoplastics	928	59171	51	3860
300000	Blow molding machines	324	45689	18	4783
400000	Vacuum-molding and other thermoforming machines	226	9176	42	1274
510010	Machines for molding or retreading pneumatic tires	538	52849	36	7701
510090	Machines for molding or otherwise forming inner tubes	266	13337	4	1125
590000	Machines for molding or otherwise forming n.e.c.	936	47114	47	2889
800000	Machines for working rubber or plastics n.e.c.	14739	109629	4325	9395
8479899040	Industrial robots, n.e.c.	14007	71955	349	8396
908040	Industrial robot parts	0	32363	0	3416
8537100030	Numerical controls for controlling machine tools	10406	42711	469	3033
9024100000	Machines and appliances for testing metals	0	11926	0	748
9031100000	Machines for balancing mechanical parts	0	11935	0	1161
300000	Profile projectors	0	6082	0	442
9032810020	Industrial process control instr., hydraulic	145209	2290	8587	233
810060	Industrial process control instr., pneumatic	225155	4695	11104	517

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	11	976	0	0	1	214
8462100030	0	0	0	0	0	0	0	0	6	312
100050	0	0	0	0	11	258	0	0	0	0
210080	0	0	0	0	10	2046	1	35	2	181
290030	4	123	0	0	14	511	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	27	877	0	0	11	115
310080	0	0	0	0	0	0	0	0	0	0
390050	11	219	0	0	12	324	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	1	60	0	0	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	2	10	0	0	4	104
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	31	1349	0	0	8	646
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	3	123	1	3	5	959
900080	0	0	0	0	14	1290	16	97	1	482
9800000002	5	98	0	0	44	411	0	0	3	5
9900000002	0	0	0	0	7	7	5	10	34	18
Month Tot	21	499	0	0	186	8182	23	145	75	3035
Y-T-D Tot	525	20015	13	202	2000	62684	335	3384	1772	35640
NC YTD Tot	39	3364	0	0	56	7037	4	173	62	2111
C&F Month	39	511	32	340	289	9390	122	1197	2385	4243
C&F Y-T-D	593	21685	2019	12479	3538	82630	2117	25970	33223	86444
C&F NC YTD	43	3486	7	573	103	12213	85	9322	188	18766

Other Manufacturing Technology

1000000000	0	299	0	97	0	4378	0	833	0	1492
2000000000	0	33	0	21	0	5699	0	4638	0	681
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	0	0	0	0	3	40	7	336	9	168
8431390080	0	0	0	8	0	1333	0	150	0	13
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	1	39	2	34	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	2	133
106010	0	0	0	0	4	469	1	153	0	0
106050	0	0	0	0	27	3889	1	332	8	264
200010	0	0	0	0	0	0	0	0	5	60
200050	1	342	0	0	8	126	0	0	3	54
300000	0	0	0	0	1	26	1	2233	0	0
400000	0	0	0	0	0	0	4	250	0	0
510010	0	0	0	0	9	939	0	0	4	125
510090	0	0	0	0	0	0	2	19	0	0
590000	1	792	0	0	2	82	10	91	0	0
800000	14	104	0	0	87	155	6	551	15	91
8479899040	0	0	0	0	3	240	1	26	0	0
908040	0	0	0	0	0	44	0	34	0	132
8537100030	0	0	0	0	1	58	0	0	1	2
9024100000	0	10	0	0	0	41	0	0	0	14
9031100000	0	0	0	1	0	2	0	0	0	13
300000	0	0	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	0	0	0	0	0	0
810060	0	0	0	0	0	0	100	7	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
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U.S. IMPORTS
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Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	3	848	1	57	0	0	0	0	0	0
8462100030	3	295	0	0	0	0	0	0	0	0
100050	11	406	4	61	0	0	0	0	6	2
210080	16	779	0	0	0	0	0	0	0	0
290030	1	9	0	0	1	22	0	0	0	0
290040	1	58	0	0	0	0	0	0	1	61
290050	36	978	0	0	0	0	0	0	2	95
310080	1	173	0	0	0	0	1	292	0	0
390050	8	272	0	0	1	20	0	0	1	10
410080	3	461	0	0	0	0	0	0	4	1330
490050	37	4315	0	0	0	0	7	127	1	13
910060	1	1127	0	0	0	0	0	0	0	0
910090	3	51	0	0	0	0	0	0	1	206
990030	0	0	0	0	0	0	0	0	0	0
990035	1	9402	0	0	0	0	0	0	0	0
990045	2	102	0	0	0	0	0	0	0	0
990060	3	2218	1	3	0	0	0	0	1	82
8463100080	10	1347	0	0	0	0	0	0	0	0
200080	1	450	0	0	0	0	0	0	0	0
300080	48	2948	0	0	0	0	0	0	0	0
900080	18	916	0	0	0	0	0	0	0	0
9800000002	2	21	0	0	0	0	1	3	7	118
9900000002	41	84	1	2	0	0	18	31	32	11
Month Tot	250	27258	7	123	2	42	27	452	56	1928
Y-T-D Tot	4156	190907	28	639	84	175	466	3981	606	31491
NC YTD Tot	404	33705	0	0	1	5	2	318	14	24844
C&F Month	4703	81476	1052	1180	105	1458	237	2608	567	3617
C&F Y-T-D	64372	986272	11777	17711	1132	17894	2486	28280	3475	47410
C&F NC YTD	6101	707381	126	9050	163	8679	95	3113	32	30597

Other Manufacturing Technology

1000000000	0	14151	0	34	0	491	0	512	0	1656
2000000000	0	4620	0	133	0	68	0	16	0	311
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	26	1271	0	0	0	0	0	0	22	940
8431390080	0	1466	0	0	0	9	0	0	0	51
8456101010	9	1558	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	1	2
8477103000	0	0	0	0	0	0	0	0	0	0
106010	49	5402	1	114	0	0	0	0	0	0
106050	83	4451	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	5	904	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	5	956	0	0	0	0	0	0	0	0
510010	3	958	0	0	0	0	1	13	0	0
510090	1	1019	0	0	0	0	0	0	0	0
590000	12	918	0	0	0	0	0	0	0	0
800000	1070	2285	0	0	0	0	0	0	0	0
8479899040	181	6837	0	0	0	0	0	0	4	139
908040	0	1026	0	0	0	0	0	0	0	81
8537100030	315	2800	0	0	0	0	0	0	0	0
9024100000	0	208	0	0	0	0	0	0	0	0
9031100000	0	1019	0	0	0	0	0	0	0	2
300000	0	229	0	0	0	0	0	0	0	0
9032810020	12	59	0	0	0	0	0	0	0	0
810060	112	30	0	0	0	0	0	0	1317	155

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
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Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	340	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	2	505	0	0
100050	1	1	0	0	11	149	11	1283	2	130
210080	2	443	1	10	17	449	0	0	2	268
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	3	13	0	0	0	0	0	0
290050	0	0	4	25	1	3	5	231	5	997
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	3	31	0	0	6	106
410080	3	441	0	0	1	21	8	1757	0	0
490050	0	0	0	0	5	125	14	426	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	7	54	18	18
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	4	883	0	0	0	0
990060	2	115	4	60	0	0	10	1605	0	0
8463100080	0	0	0	0	0	0	6	373	0	0
200080	0	0	2	30	0	0	0	0	0	0
300080	2	746	0	0	4	25	9	1481	12	289
900080	42	212	0	0	0	0	3	1588	0	0
9800000002	2	46	0	0	3	23	9	684	2	48
9900000002	10	19	400	99	59	12	88	14	2220	52
Month Tot	65	2362	414	238	1[illegible]	1721	192	10000	2267	1908
Y-T-D Tot	1902	23123	6694	8406	902	14433	2655	72032	8379	15651
NC YTD Tot	28	4666	8	950	26	683	255	21159	46	5149
C&F Month	250	11237	59340	8220	384	9271	569	21750	14301	9039
C&F Y-T-D	3978	107326	674365	125331	6008	110180	14734	359159	110442	88206
C&F NC YTD	381	36130	811	27746	751	62355	1166	158767	638	27038

Other Manufacturing Technology

1000000000	0	3163	0	1541	0	4669	0	9513	0	2785
2000000000	0	665	0	1091	0	777	0	6031	0	1302
2710003070	0	0	0	0	0	0	0	6	0	0
8428900010	9	650	0	0	5	36	0	0	1	1
8431390080	0	1903	0	32	0	635	0	1176	0	1149
8456101010	0	0	0	0	0	0	1	267	0	0
101020	0	0	0	0	0	0	8	390	0	0
105000	0	0	0	0	0	0	0	0	1	295
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	2	32	0	0
8477103000	0	0	3	2	0	0	0	0	0	0
106010	2	301	5	158	0	0	3	88	5	134
106050	6	826	21	576	0	0	25	996	7	116
200010	1	99	0	0	2	38	2	447	0	0
200050	0	0	6	219	6	263	18	1619	4	333
300000	0	0	1	16	6	60	6	2337	3	110
400000	0	0	0	0	5	6	25	40	3	22
510010	0	0	0	0	3	5	16	5661	0	0
510090	1	87	0	0	0	0	0	0	0	0
590000	0	0	0	0	4	35	6	951	12	20
800000	3	937	3022	84	15	54	41	3608	52	1526
8479899040	0	0	0	0	1	91	8	617	151	445
908040	0	317	0	0	0	372	0	1209	0	201
8537100030	2	5	25	23	1	22	17	80	107	43
9024100000	0	75	0	18	0	92	0	262	0	29
9031100000	0	26	0	0	0	44	0	15	0	39
300000	0	6	0	0	0	137	0	48	0	21
9032810020	75	5	0	0	0	0	0	0	8500	168
810060	0	0	8886	38	5	2	298	148	386	137

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
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Metal Cutting and Metal Forming Machine Tool Totals
November 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	111	1716	0	0	111	1716
Bulgaria	0	0	0	0	0	0
Czechoslovakia	7	161	0	0	7	161
Denmark	45	198	1	3	46	200
East Germany	0	0	0	0	0	0
Finland	2	76	4	295	6	371
Hungary	5	192	0	0	5	192
Ireland	4	2	0	0	4	2
Luxembourg	0	0	0	0	0	0
Netherlands	30	812	0	0	30	812
Norway	0	0	0	0	0	0
Poland	18	369	0	0	18	369
Portugal	0	0	3	59	3	59
Romania	0	0	0	0	0	0
USSR	2	14	0	0	2	14
Yugoslavia	115	881	1	128	116	1009
Oth Europe	1	11	0	0	1	11
TOTAL	4326	38722	576	20627	4902	59350
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	0	0	20	58	20	58
Oth N & C Am.	0	0	0	0	0	0
TOTAL	103	1208	206	8240	309	9449
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	32	340	0	0	32	340
OCEANIA						
Australia	1	96	0	0	1	96
New Zealand	0	0	1	942	1	942
Oth Oceania	0	0	0	0	0	0
TOTAL	1	96	1	942	2	1038

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
November 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	11609	2350	2204	94	13813	2445
Hong Kong	74	54	11	259	85	312
India	6	85	18	2	24	87
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	1	2	2	29	3	31
Malaysia	0	0	1	30	1	30
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	3	112	0	0	3	112
Oth Asia	0	0	0	0	0	0
TOTAL	76220	67275	2909	28075	79129	95350
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	1	10	1	10
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	1	10	1	10

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 900000000l, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.